PATENT ABSTRACTS OF JAPAN

(11)Publication number:

02-231344

(43) Date of publication of application: 13.09.1990

(51)Int.Cl.

B65H 9/20 B65H 7/08 B65H 7/14 G01V 9/04 G03G 15/00 G03G 15/00

(21)Application number : 01-050129

(71)Applicant: RICOH CO LTD

(22)Date of filing:

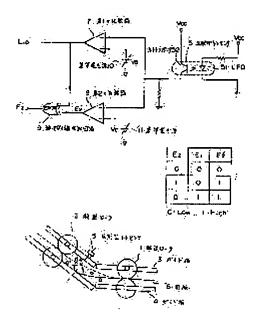
03.03.1989

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(54) PAPER FORM DETECTING DEVICE

(57)Abstract:

PURPOSE: To always hold a distance between paper forms and a print speed at respective constant values by constituting the title device with a light receiving element, first and second comparators and an exclusive OR circuit for receiving outputs of both the comparators abovementioned as its input and detecting a delay of detecting the front end of the paper form. CONSTITUTION: An exclusive OR circuit 9 obtains an output E2 (0:Low, 1:High), shown in a table, from outputs E1, E'2 of the first and second comparators 7, 8. That is, a signal of detection delay of the output E1 is output to the output E2. For instance, when a paper form 6 is placed on a conveying route between its maximum position dmax(d') and standard position dave(d) and in a case when the output E1 of the comparator 7 is L(0: paper form present) and the output E'2 of the



comparator 8 is H(1: paper form front end, absent), the output E2 obtains H(1:) showing a detection delay existing. In the other case of the table, no detection delay exists. The paper feed timing is variably controlled in accordance with a time delay of detection of the paper form front end, so as to hold a distance between the paper forms at a constant value and hold a print speed at a constant value.

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[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]